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**IN THE ABSTRACT**

The Abstract as amended below with a replacement Abstract shows added text with underlining and deleted text with ~~strikethrough~~.

Please **REPLACE** the Abstract as marked below to show changes. The replacement Abstract is submitted on a separate sheet (37 CFR 1.72).

**ABSTRACT OF THE DISCLOSURE**

~~A support system realizing reduction of a period of developing an embedded software and minimization of the number of designing steps to increase the developing efficiency by~~ An apparatus ~~concurrently executing the designing of a mechanism and the developing of the embedded software. The system includes a~~ three-dimensional-mechanism model simulating section, in which the mechanism is structured as a three-dimensional-mechanism model, for simulating ~~simulates~~ an operation of the mechanism, an embedded software developing section for developing ~~develops~~ a control program to control the designing and operation of the mechanism in parallel to each other, a first interface section for inputting ~~inputs~~ designing data from the ~~a~~ mechanism designing section to the three-dimensional-mechanism model simulating ~~sections~~ simulator for being dynamically reflected on the three-dimensional-mechanism model, and a second interface section for transferring ~~transfers~~ data between the three-dimensional-mechanism model simulating ~~sections~~ simulator and the embedded software developing section while synchronizing these two sections to ~~the simulator and the embedded software developing section with~~ each other. This system is useful when applied in developing a control program (embedded software) to be embedded in a mechanism, such as CD-changer, MD-changer, printer or manipulator, which includes at least an actuator and a sensor and produces a three-dimensional motion.